

**Bukcu, Bahaddin; Karacan, Murat Kemal**

**On the involute and evolute curves of the timelike curve in Minkowski 3-space.** (English)

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The authors consider the involute and evolute curves of a time-like curve  $\alpha$ . They express the Frenet frame of the involute curve  $\beta$  of  $\alpha$  in terms of the curvature and torsion of  $\alpha$ . They also obtain the transformation matrix between the Frenet frames of the space-like curve  $\beta$  of a unit speed time-like curve  $\alpha$  and they compute the curvature and torsion of  $\beta$ .

Reviewer: [Christos Baikoussis \(Ioannina\)](#)

**MSC:**

[53A40](#) Other special differential geometries

[53B30](#) Local differential geometry of Lorentz metrics, indefinite metrics

Cited in **2** Documents

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[time-like curve](#); [involute](#); [evolute](#), [Minkowski 3-space](#)

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